

Machine and Tool **BLUE BOOK** CUMULATIVE INDEX

JANUARY through DECEMBER 1962

	Month	Page
Assembling	In-Process Inspection Simplifies	
	Transmission Assembly	Feb 118
	Are Assembly Lines Overrated?	Feb 121
	Automatic Assembly Can Help You 3 Ways	Jun 104
	Tooling Island Aids Machine Tool Assembly	Jul 102
	Component Kits Speed Circuit Board Assembly	Aug 84
	For Farmall's Model Mix, Computer Speeds	
	Balancing of Assembly Line Workload	Nov 106
Brazing	Brazing Titanium Carbide	Jan 121
Chucks	Chucking the Big Ones	Aug 96
	"Cold" Chucks Take Hold in Precision	
	Surface Grinding	Dec 125
Cutting Tools (columnists)	Brazing Titanium Carbide	Jan 121
	Machining High-Strength Steels	Feb 125
	Positive-Rake Inserts	
	in Negative Rake Holders	Mar 142
	Carbide Machining of Stainless Steels	Apr 109
	The Functions of Rake	Jun 129
	Tool Life Variables in Planning Production	Aug 113
	Factors in Cutting Tool Selection—Part 1	Oct 125
	Factors in Cutting Tool Selection—Part 2	Nov 131
	Metallurgical Factors Affecting	
	Service Life of Tool Steels—Part 1	Dec 127
Cutting Tools	Snap-Ring Grooves Put in by Drilling Units	Jan 98
	Cartridges in Slotted Spindle Plates	
	Provide "Recoverable Tooling"	Jan 112
	How Pratt & Whitney Aircraft Established	
	Useful Equipment Standards	Feb 106
	Laser—Metalworking's Newest Tool	Sep 113
	Carbide Impregnation Boosts Tool Life	Sep 122
Drilling & Finishing of Holes	Introduction	May 105
	The Limits of Tolerance—Part 1	Jun 119
	The Limits of Tolerance—Part 2	Jul 105
	Elements of the Twist Drill—Nomenclature, Point Angle, Chisel Edge, Web Thinning, and Modified Drill Points	Aug 104
	Elements of the Twist Drill—Split Point, Point Angles, Multiple-Cut Drills, and Double-Margin Drills	Sep 125

CUMULATIVE INDEX

	Elements of Twist Drill—Speeds and Feeds, Chip Breakers, and Chip Removal	Oct	120
	Elements of the Twist Drill—Bushings, Lubricants, and Cutting Fluids	Nov	127
	Deep Hole Drilling, Opposed Drilling, Drilling and Tapping	Dec	121
Electro-Discharge Machining	"Piccolo Punching" Anti-Icing Tubes	Oct	118
Engineering	The Future for Young Engineers	Feb	100
	Engineering Drawing Goes to Tape Control at General Dynamics/Fort Worth	Jul	96
Exposition	Preview of the A.S.T.M.E. Tool Exposition	May	133
Forming	Forming Parts from Continuous Galvanized Sheet Jan	90	
	Magnetic Field—Latest Metalworking Tool	Jan	110
	Power Bender Speeds Production at Automotive Parts Plant	Feb	123
	High Velocity Working Pressure Puts Precision Forging on a Production Basis	Mar	118
	Conventional Press Brake Equipment Forms Plastic Sheet	Mar	122
	Forming Metal Bands for TV Picture Tubes	May	118
	Coining Brass Emblems and Jewelry Findings	Aug	112
	Ice—Hottest New Die Material for Explosive Forming	Sep	102
	Forming 110,000 Terminal Plugs a Day with Four-Slide Tooling	Sep	118
	In Round—Out Square—Expander Holds Key to Product Redesign	Oct	110
	Curved "Helper" Section Aids Roll Forming Shells for Mixer Drums	Oct	115
	Torque Converter Hub Now Extruded	Nov	115
	Freeze Forming—New Lab Technique	Dec	118
Grinding, Finishing, Honing	Surface Grinding to Ten Millionths of Inch	Feb	116
	Abrasives Spark the Automotive Industry	Mar	107
	Full Pressure for Air Tools Saves Money	Apr	96
	Internal Grinding of Deep Blind Holes	Jul	104
	Superfinishing Discs with Stones in Tandem	Oct	124
	Horizontal Hone Uses Rotating Work-Piece	Nov	118
	"Cold" Chucks Take Hold in Precision Surface Grinding	Dec	125
Heat Treating (columnist)	Why Heat Treat?	Mar	145
	How Carbon Steels Respond to Heat Treatment	May	127
	Influence of the Cooling Rate	Jun	132
	Softening Heat Treatments	Jul	113

JANUARY through DECEMBER 1962

	Hardening Heat Treatments	Aug	119
	Drawing and Tempering	Sep	133
	Surface Treatments	Oct	133
	Methods of Heating and Quenching	Nov	135
	Relation of Design; Types of Furnaces	Dec	133
Industrial Economics	Equipment Leasing: Your Questions Answered ...	Jun	112
	Appreciation ... and ... Depreciation	Sep	297
	Money Talks	Oct	10
	Money Talks	Nov	10
	Money Talks	Dec	10
Inspection, Quality Control, Measurement	In-Process Inspection Simplifies	Feb	118
	Transmission Assembly	Apr	86
	Maytag Executives Define Quality Control	Apr	104
	Rack Leads Charted on Gear Analyzer	Apr	107
	"No Charge" Gage Block Service	Jun	104
	Automatic Assembly Can Help You 3 Ways	Jul	93
	Dynamic Balancing—A Study in Accuracy	Nov	143
	Federal Opens Measurement Center	Dec	106
	A. O. Smith Fabricates and Inspects the Big Ones for the Oil Industry		
Interesting Motions	Cam and Rack Produce Intermittent Rotary Motion	Jan	116
	Three Slides Operated from One Power Source ...	Feb	128
	Cam Controls Machine's Speed and Timing	Mar	139
	A Varying Intermittent Rotary Motion	Apr	120
	Swinging Gears Produce a Variable Rotative Motion	Jun	136
	Rotating Shaft Drives Irregular Slide	Aug	116
	Reciprocating Slide Drives Intermittent Slide ...	Oct	140
	Variable Lever Movements with Single Cam	Nov	144
	Hypocycloidal Gearing Produces Straight-Line Motion	Dec	136
Interviews	Jack Schiller, Asst. Supt., Mfg. Development, N. C. Works, Western Electric Co.	Feb	100
	Irwin Rose, VP-Mfg., and Charles Gecan, Mgr., Quality Control, Maytag Co.	Apr	86
	Robert Gladfelter, Pres., and Donald Lamb, VP-Engrg., Detroit Power Screwdriver Co.	Jun	104
	Robert Sheridan, Pres., Nationwide Leasing Co. ...	Jun	112
	Joseph Riggs, Chm., and James Coultrap, Pres., Miehle-Goss-Dexter, Inc.	Sep	109
Jigs & Fixtures	Which Hole Locator Is Best?	Apr	92
	Hydraulic Clamps Minimize Distortion in Milling Aluminum	Apr	102
	Fixtures for N-C Machines	Oct	102

CUMULATIVE INDEX

Lubricants and Coolants (columnist)

Selecting the Lubricant	Jan	123
What to Look for When Specifying Lubricants and Coolants	Feb	130
How Coolants Aid Metalworking	Mar	135
Designing for Lubrication	Apr	113
Maintenance and Lubrication	May	125
Hydraulic Power Transmission Fluids	Jun	126
Lubricant Stability	Jul	117
Endurance Value of Petroleum Lubricants	Oct	136
Fire Hazards and Contaminants	Dec	130

Machining

Snap-Ring Grooves Put in by Drilling Units	Jan	98
Transfer Machine Builder Automates Short Runs	Jan	104
Hydraulic Clamps Minimize Distortion in Milling Aluminum	Apr	102
Rotundas Replace Rows in Screw Machine Shop That Is Different	Jul	90
The Case for Friction Band Sawing	Aug	96
Chucking the Big Ones	Aug	96
Laser—Newest Metalworking Tool	Sep	113
Machining Liquid-Cast Polyurethanes	Nov	120
Hot Machining the Tough New Alloys with Aid of R-F Resistance Heating	Dec	114

Manpower Management (columnist)

Selling New Methods to the Rank and File	Jun	123
Selling Work Standards to the Rank and File	Jul	109
Do You Keep Visiting Salesmen on a "Twelve-Hour Week?"	Aug	123
So You Won't Get a Union and You Won't Have a Strike! How Do You Know?	Sep	136
Can the Japanese Teach Us Anything About Labor Relations?	Oct	130
Try a Little Industrial Engineering on Your Salesmen's Compensation!	Nov	140

Maintenance

Lathe Maintenance Minimized with Nylon	Jan	101
Preventive Maintenance Pays Off at International Harvester	Mar	127
Tags Flag Machine Failures at Timken	Mar	134
Training the N-C Maintenance Man	May	122
Maintenance and Lubrication	May	125

Numerical Control (columnist)

How a Numerical Control System Operates	Jan	118
Applications for Numerical Control	Feb	134

Numerical Control

N-C Economizes Circuit Board Drilling	Apr	99
Training the N-C Maintenance Man	May	122

JANUARY through DECEMBER 1962

	N-C Keeps Pace with Space Age Needs	May	130
	N-C Speeds Drilling of Die Sets	Jun	116
	Engineering Drawing Goes to Tape Control at General Dynamics/Fort Worth	Jul	96
	They Grew Up with Numerical Control at Miehle-Goss-Dexter	Sep	106
	Fixtures for N-C Machines	Oct	102
Plastics	Lathe Maintenance Minimized with Nylon	Jan	101
	Conventional Press Brake Equipment Forms Plastic Sheet	Mar	122
	Machining Liquid-Cast Polyurethanes	Nov	120
Punching	Ganging Up on Punching Costs	Aug	98
	"Piccolo Punching" Anti-Icing Tubes	Oct	118
Sawing	The Case for Friction Band Sawing	Aug	90
Stampings (columnist)	From a Casting to a Stamping	Aug	109
	Three Approaches to Stamped Support Brackets for Round Shafts	Sep	130
	Variations of Stamped Pulleys	Nov	138
Tools and Dies	Cartridges in Slotted Spindle Plates Provide "Recoverable Tooling"	Jan	112
	Conventional Press Brake Equipment Can Form Plastic Sheet	Mar	122
	An American Tool and Die Maker Sets Up Shop in India	May	113
	Forming Metal Bands for TV Picture Tubes	May	118
	N-C Speeds Drilling of Die Sets	Jun	116
	Ice—Hot New Die Material for Explosive Forming	Sep	102
	Forming 110,000 Terminal Plugs a Day with Four-Slide Tooling	Sep	118
	Torque Converter Hub Now Extruded	Nov	115
	Freeze Forming—New Lab Technique	Dec	118
Tracing	Tracer-Controlled Table Speeds Multiple-Hole Drilling	Dec	116
Welding	Fast Welding of Tanks with Portable Submerged Arc Welder	Jun	109
	Welded Bearing Retainers Now Practical with New Projection Welding Technique	Aug	101
	Laser—Metalworking's Newest Tool	Sep	113
	Curved "Helper" Section for Roll Former Facilitates Subsequent Seam Welding	Oct	115
	A. O. Smith Fabricates the Big Ones for the Oil Industry	Dec	106

CUMULATIVE INDEX

Shop Hints	Die for Making Angle Brackets	Jan	126
	Slotted Tube Speeds Trueing of Chuck Jaws	Jan	127
	Recess in Punch Reduces Grinding Time	Jan	128
	Adapter for Centering	Jan	128
	Quick-Acting Jig Latch	Jan	129
	Locating the Pressure Position		
	on a Dieing Machine	Feb	136
	Supporting Bushing for Small Diameter Stock	Feb	137
	Socket Wrench Extensions Drive Counterbore	Feb	137
	Emergency Tooling for Burr-Free Holes	Feb	139
	Inserted Sections in Blanking Dies		
	Solve Machining Problems	Feb	141
	Edge Finder for Toolmaker's Microscope	Mar	148
	Spring Flips Cut-Off Work into Box	Mar	149
	Dowel Pins in Vise Jaws		
	Speed Angular Work Setting	Mar	149
	Timing Belts Reduce Loads on Bearings	Apr	116
	In-Lathe Drill Jig Eliminates Extra Handling	Apr	116
	Collet Pads Hold Square Stock		
	in Three-Jaw Chuck	Apr	118
	Shot-Filled Jar Holds Small Tools	Jun	138
	Using Vernier Calipers to Measure a Step	Jun	138
	Use Solderless Terminals		
	to Store Hex Key Wrenches	Jun	140
	Alignment Bar Guides Hacksaw for Angle Cut	Jun	140
	Layout Die Applicator	Jul	126
	Inertia Chuck Remover	Jul	126
	Spring Helps Ejector Pin Last Longer	Jul	128
	Preventing Slugged Parts from Sticking	Jul	128
	Wheel Puller Doubles as a Clamp	Sep	140
	Cap Over Draw-In Collet		
	Provides Accurate Length Stop	Sep	140
	Spanner Wrench Made from Tube Section	Sep	142
	I-Beam Section Holds Pins for End Grinding	Sep	142
	Clamp Design Equalizes Pressure	Oct	142
	Wheel Change Brace Locks		
	for Surface Grinding	Oct	142
	Turning a Square into a Round	Oct	144
	Bending Die Has Built-In Slides	Nov	148
	Drill Breakage Eliminated		
	at Angular Intersection	Dec	138
	Adjustable Clamp for Welding Angle Joints	Dec	139
	Burr Shaver Leaves Scribed Lines Intact	Dec	140

